

*for memory report**File 2010*

The Prototype of the Radio Station RS-6 have been approved and the contractor STAT given authority to produce approximately six thousand units. Design factors limiting the performance of the RS-6A as compared with the RS-6 have been weighed in principle and some ground given. Except for the fact that RS-6 production pieces are needed for the RS-6A production prototypes, they would be forthcoming shortly; the design of the RS-6A is essentially completed and negotiations for a loan of a preliminary prototype has been initiated.

The preliminary ~~p~~ instruction book for RS-6 has been received but is lacking a spare parts list. This list has been requested of the contractor. The instruction book for the RS-6 is being coordinated with the Air Force requirements in so far as content is concerned. Close liaison has been maintained with the contractor during this period. A hash problem inherent in the RS-6 prototypes has been brought to his attention and the solution tendered. A compromise solution to the AC neon Voltage indicator has been offered.

Discussion has been extensive on the techniques of producing and scheduling of a coated power transformer into the equipment. The contractor has made considerable progress in this direction and by the application of constant pressure from this office the additional cost per unit and changeover should be fixed without seriously affecting production. It is apparent from recent conversations that the insertion of the coated transformer cannot be effected earlier than the 2500th unit. Reference paragraph B of the enclosed trip report to Motorola for additional details.

Personnel of the Communications Laboratory have visited the Air Force's S.A.C. establishment at Stead Air Force Base, Reno Nevada. In general, they find the RS-6 a vast improvement over the TR-1. We have met their main criticisms in providing break-in. The production of RS-6A shall also

provide them with a unit more in correspondance with their requirements.

Additional information was obtained and is enclosed under the EIR to Stead Air Force Base.

The RS-6 has been tested in conjunction with the Hot Shot Generator.

Because of the almost constant load characteristics of the RS-6 results were very favorable.